CLAIM AMENDMENTS

51. (Original) A method for determining wear in a machine comprising:

providing a first material of a first color;

providing a second material of a second color; melting the first and second materials in the

machine to obtain a third material of a third color which has a first color value;

obtaining a comparison of the first color value with a second color value, a difference between the first color value and the second color value indicates wear in the machine.

- 52. (Original) The method as in claim 51 wherein the second color value is obtained from a color chip.
- 53. (Original) The method as in claim 51 wherein the second color value is obtained from a control part.
- 54. (Original) The method as in claim 51 wherein the second color value is obtained from a predetermined line on a graph.
- 55. (Original) The method as in claim 51 wherein the second color value is obtained from a predetermined mathematical equation.
- 56. (Original) The method as in claim 51 wherein the machine has a screw and a barrel which are separated by a distance, the difference between the first color

value and the second color value indicates a change in the distance and wear in the machine.

57. (Original) The method as in claim 51 further comprising:

after a specified period of time

providing the first material of the first color;

providing the second material of the second color;

melting the first and second materials in the

machine to obtain a third material which has a second color value.



- 58. (Original) The method as in claim 57 further comprising the step of creating a graph with color value on one axis and time on the other axis, placing the first color value and second color value on the graph and forming a line with the values.
- 59. (Original) The method as in claim 58 further comprising the step of extrapolating the line beyond the values to determine the time when the color value will reach a predetermined value.
- 60. (Original) The method as in claim 57 further comprising after a second specified period of time:

 providing the first material of the first color;

 providing the second material of the second color;

 melting the first and second materials in the machine to obtain a third material which has a third color value.

- 61. (Original) The method as in claim 60 further comprising the step of creating a graph with color value on one axis and time on the other axis, placing the color values on the graph and forming a line with the values.
- 62. (Original) The method as in claim 61 further comprising the step of extrapolating the line beyond the values to determine the time when the color value will reach a predetermined value.
- 63. (Original) The method as in claim 57 further comprising obtaining a mathematical equation which represents the relationship between the values and the time period.
- 64. (Original) The method as in claim 63 wherein the equation is used to determine the time when the color value will reach a predetermined value.
- 65. (Original) The method as in claim 51 wherein the first material is in pellet form and the second material is in pellet form.
- 66. (Original) The method as in claim 65 wherein the first material and second material are premixed.
- 67. (Original) The method as in claim 51 wherein the first material is in pellet form and the second material is in liquid form.



- 68. (Original) The method as in claim 51 wherein the first material is a precolored compound and the second material is a color concentrate.
- 69. (Original) The method as in claim 68 wherein the first color is yellow, the second color is blue and the third color is green.
- 70. (Original) The method as in claim 68 wherein the first color is white, the second color is blue and the third color is light blue.
- 71. (Original) The method as in claim 51 wherein the first material is a natural resin and the second material is a color concentrate.
- 72. (Original) The method as in claim 51 wherein the first material is a natural resin and the second material is a colorant.
- 73. (Original) The method as in claim 72 wherein the colorant is selected from the group consisting of: a pigment; a dye; and a combination of a pigment and a dye.
- 74. (Original) The method as in claim 51 wherein the machine is an extruder.
- 75. (Original) The method as in claim 51 wherein the machine is an injection molding machine.
- 76. (Original) The method as in claim 51 wherein the third material is molded into a part.



- 77. (Original) The method as in claim 76 wherein the first color value is obtained from the part.
- 78. (Original) The method as in claim 51 wherein the first color value is obtained using a measuring device.
- 79. (Original) The method as in claim 78 wherein the measuring device is a spectrophotometer.
- 80. (Original) The invention as in claim 54 wherein the predetermined line is obtained by measuring the color of the third material at various intervals of time.
- 81. (Original) The invention as in claim 54 wherein the predetermined line corresponds to the abrasiveness of the first material or the second material.
- 82. (Original) The invention as in claim 81 wherein a second predetermined line corresponds to the abrasiveness of a different first material or second material.
- 83. (Original) The invention as in claim 55 wherein the predetermined equation is obtained by measuring the color of the third material at various intervals of time.



- 84. (Original) The invention as in claim 55 wherein the predetermined equation corresponds to the abrasiveness of the first material or the second material.
- 85. (Original) The invention as in claim 84 wherein a second predetermined equation corresponds to the abrasiveness of a different first material or second material.
- 86. (Original) A method for determining wear in a machine comprising:

providing a first material of a first color;

providing a second material of a second color, which
will be melted with the first material in the machine to
obtain a third material of a third color which has a first
color value;

obtaining a comparison of the first color value with a second color value, a difference between the first color value and the second color value indicates wear in the machine.

87. (Original) A method for determining wear in a machine using a first material of a first color and a second material of a second color which are melted in the machine to obtain a third material of a third color, the method comprising:

at a first period of time, obtaining a first sample of the third material and measuring the color of the third color to obtain a first color value using a measuring device;

obtaining a comparison of the first color value with a second color value, a difference between the first color



value and the second color value indicates wear in the machine.

88. (Currently Amended) A method for determining the performance of a machine comprising:

providing a first material of a first color;

providing a second material of a second color;

melting the first and second materials in the

machine to obtain a third material of a third color which

is formed into a part and which has a first color value;

obtaining a comparison of the first color value with a second color value, a difference between the first color value and the second color value indicates performance of the machine.

89. (Original) A method for determining the performance of a machine comprising:

providing a first material of a first color;

providing a second material of a second color;

melting the first and second materials in the

machine to obtain a third material of a third color;

forming the third material into a part;

obtaining the color of the third color at a first location on the part to obtain a first color value and obtaining the color of the third color at a second location on the part to obtain a second color value;

obtaining a comparison of the first color value with the second color value.

90. (Currently Amended) A method for determining the performance of a machine comprising:

providing a first material of a first color;



providing a second material of a second color, which will be melted with the first material in the machine to obtain a third material of a third color which will be formed into a part and which has a first color value;

obtaining a comparison of the first color value with a second color value, a difference between the first color value and the second color value indicates the performance of the machine.

91. (Currently Amended) A method for determining performance of a machine using a first material of a first color and a second material of a second color which are melted in the machine to obtain a third material of a third color which is formed into a part, the method comprising:

at a first period of time, obtaining a <u>part which</u>
<u>includes</u> <u>first sample of</u> the third material and measuring
the color of the third color to obtain a first color value;

obtaining a comparison of the first color value with a second color value, a difference between the first color value and the second color value indicates performance of the machine.

- 92. (New) The method as in claim 86 wherein the second color value is obtained from a color chip.
- 93. (New) The method as in claim 86 wherein the second color value is obtained from a control part.
- 94. (New) The method as in claim 86 wherein the second color value is obtained from a predetermined line on a graph.



- 95. (New) The method as in claim 86 wherein the second color value is obtained from a predetermined mathematical equation.
- 96. (New) The method as in claim 86 wherein the machine has a screw and a barrel which are separated by a distance, the difference between the first color value and the second color value indicates a change in the distance and wear in the machine.
- 97. (New) The method as in claim 86 further comprising:

after a specified period of time

providing the first material of the first color;

providing the second material of the second color;

melting the first and second materials in the

machine to obtain a third material which has a second color value.

- 98. (New) The method as in claim 97 further comprising the step of creating a graph with color value on one axis and time on the other axis, placing the first color value and second color value on the graph and forming a line with the values.
- 99. (New) The method as in claim 98 further comprising the step of extrapolating the line beyond the values to determine the time when the color value will reach a predetermined value.



- 100. (New) The method as in claim 97 further comprising after a second specified period of time:

 providing the first material of the first color;

 providing the second material of the second color;

 melting the first and second materials in the machine to obtain a third material which has a third color value.
- 101. (New) The method as in claim 100 further comprising the step of creating a graph with color value on one axis and time on the other axis, placing the color values on the graph and forming a line with the values.
- 102. (New) The method as in claim 101 further comprising the step of extrapolating the line beyond the values to determine the time when the color value will reach a predetermined value.
- 103. (New) The method as in claim 97 further comprising obtaining a mathematical equation which represents the relationship between the values and the time period.
- 104. (New) The method as in claim 103 wherein the equation is used to determine the time when the color value will reach a predetermined value.
- 105. (New) The method as in claim 86 wherein the first material is in pellet form and the second material is in pellet form.

- 106. (New) The method as in claim 105 wherein the first material and second material are premixed.
- 107. (New) The method as in claim 86 wherein the first material is in pellet form and the second material is in liquid form.
- 108. (New) The method as in claim 86 wherein the first material is a precolored compound and the second material is a color concentrate.
- 109. (New) The method as in claim 108 wherein the first color is yellow, the second color is blue and the third color is green.
- 110. (New) The method as in claim 108 wherein the first color is white, the second color is blue and the third color is light blue.
- 111. (New) The method as in claim 86 wherein the first material is a natural resin and the second material is a color concentrate.
- 112. (New) The method as in claim 86 wherein the first material is a natural resin and the second material is a colorant.
- 113. (New) The method as in claim 112 wherein the colorant is selected from the group consisting of: a pigment; a dye; and a combination of a pigment and a dye.



- 114. (New) The method as in claim 86 wherein the machine is an extruder.
- 115. (New) The method as in claim 86 wherein the machine is an injection molding machine.
- 116. (New) The method as in claim 86 wherein the third material is molded into a part.
- 117. (New) The method as in claim 116 wherein the first color value is obtained from the part.
- 118. (New) The method as in claim 86 wherein the first color value is obtained using a measuring device.
- 119. (New) The method as in claim 118 wherein the measuring device is a spectrophotometer.
- 120. (New) The invention as in claim 94 wherein the predetermined line is obtained by measuring the color of the third material at various intervals of time.
- 121. (New) The invention as in claim 94 wherein the predetermined line corresponds to the abrasiveness of the first material or the second material.
- 122. (New) The invention as in claim 121 wherein a second predetermined line corresponds to the abrasiveness of a different first material or second material.



- 123. (New) The invention as in claim 95 wherein the predetermined equation is obtained by measuring the color of the third material at various intervals of time.
- 124. (New) The invention as in claim 95 wherein the predetermined equation corresponds to the abrasiveness of the first material or the second material.
- 125. (New) The invention as in claim 124 wherein a second predetermined equation corresponds to the abrasiveness of a different first material or second material.
- 126. (New) The method as in claim 87 wherein the second color value is obtained from a color chip.
- 127. (New) The method as in claim 87 wherein the second color value is obtained from a control part.
- 128. (New) The method as in claim 87 wherein the second color value is obtained from a predetermined line on a graph.
- 129. (New) The method as in claim 87 wherein the second color value is obtained from a predetermined mathematical equation.
- 130. (New) The method as in claim 87 wherein the machine has a screw and a barrel which are separated by a distance, the difference between the first color value and the second color value indicates a change in the distance and wear in the machine.



> (New) The method as in claim 87 further 131. comprising:

after a specified period of time providing the first material of the first color; providing the second material of the second color; melting the first and second materials in the machine to obtain a third material which has a second color value.

- The method as in claim 131 further (New) comprising the step of creating a graph with color value on one axis and time on the other axis, placing the first color value and second color value on the graph and forming a line with the values.
- 133. (New) The method as in claim 132 further comprising the step of extrapolating the line beyond the values to determine the time when the color value will reach a predetermined value.
- The method as in claim 131 further 134. (New) comprising after a second specified period of time: providing the first material of the first color; providing the second material of the second color; melting the first and second materials in the machine to obtain a third material which has a third color value.
- 135. (New) The method as in claim 134 further comprising the step of creating a graph with color value



on one axis and time on the other axis, placing the color values on the graph and forming a line with the values.

- 136. (New) The method as in claim 135 further comprising the step of extrapolating the line beyond the values to determine the time when the color value will reach a predetermined value.
- 137. (New) The method as in claim 131 further comprising obtaining a mathematical equation which represents the relationship between the values and the time period.
- 138. (New) The method as in claim 137 wherein the equation is used to determine the time when the color value will reach a predetermined value.
- 139. (New) The method as in claim 87 wherein the first material is in pellet form and the second material is in pellet form.
- 140. (New) The method as in claim 139 wherein the first material and second material are premixed.
- 141. (New) The method as in claim 87 wherein the first material is in pellet form and the second material is in liquid form.
- 142. (New) The method as in claim 87 wherein the first material is a precolored compound and the second material is a color concentrate.



- 143. (New) The method as in claim 142 wherein the first color is yellow, the second color is blue and the third color is green.
- 144. (New) The method as in claim 142 wherein the first color is white, the second color is blue and the third color is light blue.
- 145. (New) The method as in claim 87 wherein the first material is a natural resin and the second material is a color concentrate.
- 146. (New) The method as in claim 87 wherein the first material is a natural resin and the second material is a colorant.
- 147. (New) The method as in claim 146 wherein the colorant is selected from the group consisting of: a pigment; a dye; and a combination of a pigment and a dye.
- 148. (New) The method as in claim 87 wherein the machine is an extruder.
- 149. (New) The method as in claim 87 wherein the machine is an injection molding machine.
- 150. (New) The method as in claim 87 wherein the third material is molded into a part.
- 151. (New) The method as in claim 150 wherein the first color value is obtained from the part.

- 152. (New) The method as in claim 87 wherein the measuring device is a spectrophotometer.
- 153. (New) The invention as in claim 128 wherein the predetermined line is obtained by measuring the color of the third material at various intervals of time.
- 154. (New) The invention as in claim 128 wherein the predetermined line corresponds to the abrasiveness of the first material or the second material.
- 155. (New) The invention as in claim 154 wherein a second predetermined line corresponds to the abrasiveness of a different first material or second material.
- 156. (New) The invention as in claim 129 wherein the predetermined equation is obtained by measuring the color of the third material at various intervals of time.
- 157. (New) The invention as in claim 129 wherein the predetermined equation corresponds to the abrasiveness of the first material or the second material.
- 158. (New) The invention as in claim 157 wherein a second predetermined equation corresponds to the abrasiveness of a different first material or second material.
- 159. (New) A method for determining the performance of a machine comprising:

providing a first material of a first color; providing a second material of a second color;



melting the first and second materials in the machine to obtain a third material of a third color which has a first color value, the first color value is obtained outside of the machine;

obtaining a comparison of the first color value with a second color value, a difference between the first color value and the second color value indicates performance of the machine.

160. (New) A method for determining the performance of a machine comprising:

providing a first material of a first color;

providing a second material of a second color, which will be melted with the first material in the machine to obtain a third material of a third color which has a first color value, the first color value is obtained outside of the machine;

obtaining a comparison of the first color value with a second color value, a difference between the first color value and the second color value indicates the performance of the machine.

161. (New) A method for determining performance of a machine using a first material of a first color and a second material of a second color which are melted in the machine to obtain a third material of a third color, the method comprising:

at a first period of time, obtaining a first sample of the third material and measuring, outside of the machine, the color of the third color to obtain a first color value;



obtaining a comparison of the first color value with a second color value, a difference between the first color value and the second color value indicates performance of the machine.